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FEDERAL COMMUNICATIONS COMMISSION

Report No.: GLEMO050501523RFF(I) Registration number: 282399

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FCC ID: TDX5503688RC

TEST REPORT

Application No.: GLEMO050501523RF(SZTYR050500620EL)

SHANTOU CITY CHENGHAI DISTRICT NANSHENG TOYS & CRAFTS Applicant:

FACTORY

FCC ID: TDX5503688RC

Fundamental 27.145MHz Frequency:

Equipment Under Test (EUT):

Name: RADIO CONTROL CROSS - COUNTRY AUTOMOBILE

Item No.: 8575, 8573, 8574

Serial No .: Not supplied by the client

Please refer to section 2 of this report which indicates which item was

actually tested and which were electrically identical.

FCC PART 15, SUBPART C: 2004 Standards:

Section 15.227

Date of Receipt: 31 May 2005 1 to 16 June 2005 **Date of Test:**

22 June 2005 Date of Issue:

Test Result: PASS *

In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Kent Hsu

Laboratory Manager

This report refers to the General Conditions for Inspection and Testing Services, printed overleaf

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

All test results in this report can be traceable to National or International Standards.



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2 Test Summary

Test	Test Requirement	Stanadard Paragraph	Result
Radiated Emission (30MHz to 1000MHz)	FCC PART 15 :2004	Section 15.227	PASS1
Occupied Bandwidth	FCC PART 15 :2004	Section 15.227	PASS1

Remark:

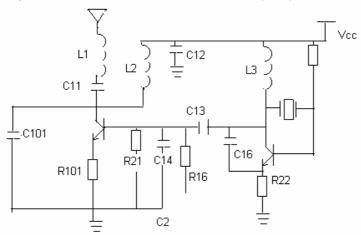
♣ Item No.: 8575, 8573, 8574

Only the Item 8574 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above items, with only difference being the outer decoration and package.

- ① :The EUT passed Radiated Emission and Occupied Bandwidth test after the modification as shown as the below:
 - 1. Added one resistor and one capacitor as the below.

C101: 10pF, R101: 150Ω

2. Replaced the rsisitor R22 with the new one (56Ω)



Please refer the section 6 of this report and circuit diagram for the detail.



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4 General Information

4.1 Client Information

Applicant Name: SHANTOU CITY CHENGHAI DISTRICT NANSHENG TOYS & CRAFTS

FACTORY

Applicant Address: LAIMEI INDUSTRIAL AREA, CHENGHAI DISTRICT, SHANTOU CITY,

GUANGDONG, CHINA.

4.2 General Description of E.U.T.

Name: RADIO CONTROL CROSS – COUNTRY AUTOMOBILE

Item No.: 8575, 8573, 8574

Serial No.: Not supplied by the client

4.3 Details of E.U.T.

Power Supply: 9V DC (1 x '6F22' Size Battery)

Power Cord: N/A-

4.4 Description of Support Units

The EUT was tested as an independent unit: a 27MHz radio transmitter.

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Ltd., Guangzhou EMC Laboratory, 1/F, Building No. 1, Agriculture Machinery Materials Company Warehouse Ltd., Wushan Road Shipai, Tianhe District, Guangzhou, China. P.C. 510630.

Tel: +86 20 3848 1001 Fax: +86 20 3848 1006

4.6 Other Information Requested by the Customer

None.



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4.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

NVLAP – Lab Code: 200611-0

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is recognized under the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0. Effective through December 31, 2005.

ACA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

VCCI

The 3m Semi-anechoic chamber and Shielded Room (11.5m x 4m x 4m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-1599 and C-1706 respectively.

Date of Registration: June 01, 2005. Valid until February 22, 2008

• SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

CNAL – LAB Code: L0141

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAL/AC01:2002 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:1999 General Requirements) for the Competence of Testing Laboratories.

FCC – Registration No.: 282399

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002. With the above and NVLAP's accreditation, SGS-CSTC is an authorised test laboratory for the DoC process.

Industry Canada (IC)

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5169.



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5 Test Results

5.1 Test Instruments

	RE in Chamber					
No:	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	3m Semi- Anechoic Chamber	Frankonia	N/A	N/A	31-01-2005	30-01-2006
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	100085	10-10-2004	09-10-2005
3	EMI Test Software	Rohde & Schwarz	ES-K1	N/A	N/A	N/A
4	Coaxial cable	SGS	N/A	N/A	05-12-2003	04-12-2005
5	Bilog Type Antenna	Schaffner -Chase	CBL6143	5070	17-01-2005	16-01-2006
6	Horn Antenna	Rohde & Schwarz	HF906	100095	02-04-2004	01-04-2005
7	Spectrum Analyzer	Rohde & Schwarz	FSP30	100324	29-10-2004	28-10-2005
8	0.1-1300 MHz Pre-Amplifier	HP	8447D OPT 010	2944A0625 2	31-05-2004	30-05-2005
9	1-26.5 GHz Pre-Amplifier	Agilent	8449B	3008A0164 9	26-01-2004	25-01-2006
10	Active Loop Antenna	EMCO	6502	00042963	14-Jan-2005	14-Jan-2006

5.2 E.U.T. Operation

Input voltage: 9V DC (1 x '6F22' Size Battery)

Operating Environment:

Temperature: 25.0 °C
Humidity: 50 % RH
Atmospheric Pressure: 1013 mbar

EUT Operation: Test the EUT in transmitting mode.

5.3 Test Procedure & Measurement Data

5.3.1 Radiated Emissions

Test Requirement: FCC Part15 C Section 15.227

Test Method: ANSI C63.4

Test Date: 1 June 2005 (Initial Test);

16 June 2005 (Test after modification)

Measurement Distance: 3m (Semi-Anechoic Chamber)

Requirements: Carrier frequency will not exceed 80dBuV/m AT 3m.

Out of band emissions shall not exceed: $40.0~dB_{\mu}V/m~between~30MHz~\&~88MHz$ $43.5~dB_{\mu}V/m~between~88MHz~\&~216MHz$ $46.0~dB_{\mu}V/m~between~216MHz~\&~960MHz$

54.0 dB_μV/m above 960MHz

Detector: Peak Scan (120kHz resolution bandwidth)



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Test Procedure: The procedure used was ANSI

Standard C63.4-2003. The receive was scanned from 30MHz to 1000MHz.When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes. The worst case emissions were reported.

An initial pre-scan was performed in the 3m chamber using the spectrum analyser in peak detection mode. The EUT was measured by Bilog antenna with 2 orthogonal polarities and peak emissions from the EUT were detected within 6dB of the class B limit line.

The following measurements were performed on the EUT on 16 June 2005: Test the EUT in transmitting mode.

Intentional emission

Test Frequency	Peak (dBµV/m)		Limits	Margin (dB)	
(MHz)	Vertical	Horizontal	(dBµV/m)	Vertical	Horizontal
27.145	60.0	44.2	100.0	40.0	55.8

Test Frequency	Average (dBµV/m)		Limits	Margin (dB)	
(MHz)	Vertical	Horizontal	(dBµV/m)	Vertical	Horizontal
27.145	50.2	40.0	80.0	29.8	40.0



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Other emissions

Test	Quasi-Peak (dBµV/m)	Limits	Margin (dB)
Frequency (MHz)	Vertical	(dBµV/m)	Vertical
54.290	18.9	40.0	21.1
81.435	16.0	40.0	24.0
108.580	12.1	43.5	31.5
135.725	20.4	43.5	23.1
162.870	25.7	43.5	17.8
190.015	14.7	43.5	28.8
217.160	15.9	46.0	30.1
244.305	13.2	46.0	32.8
271.450	16.7	46.0	29.3

Test	Quasi-Peak (dBµV/m)	Limits	Margin (dB)	
Frequency (MHz)	Horizontal	(dBµV/m)	Horizontal	
54.290	17.9	40.0	22.1	
81.435	14.4	40.0	25.6	
108.580	19.1	43.5	24.4	
135.725	20.3	43.5	23.3	
162.870	22.5	43.5	21.0	
190.015	14.3	43.5	29.2	
217.160	21.6	46.0	24.5	
244.305	25.9	46.0	20.1	
271.450	21.6	46.0	24.4	

Remark:

According to 15.35 (b) When average radiated emission measurements are specified in the regulations, including emission measurements below 1000 MHz, there is also a imit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules, e.g., see Section 15.255.

Test Results: The unit does meet the FCC Part 15 C Section 15.227 requirements.



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5.3.2 Occupied Bandwidth

Test Requirement: FCC Part 15 C Section 15.227

Test Method: ANSI C63.4

Operation within the band 26.960 - 27.280 MHz

Test Date: 1 June 2005 (Initial Test);

16 June 2005 (Test after modification)

Requirements: The field strength of any emissions which appear outside of this

band shall not exceed the general radiated emission limits in

Section 15.209.

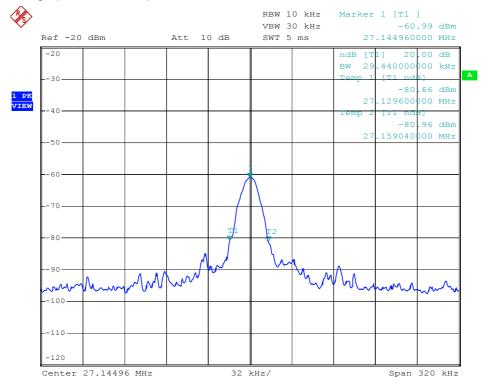
Method of measurement: The useful radiated emission from the EUT was detected by the

spectrum analyser with peak detector. The vertical Scale is set to

-10dB per division. The horizontal scale is set to 5KHz per

division.

The graph as below, represents the emissions take for this device.



Date: 16.JUN.2005 19:06:25

The results: The unit does meet the FCC Part 15 C Section 15.227 requirements.